

## ABSTRACT

An input receiving section 102 of a transmitter apparatus 101 receives inputs of multiple synchronized signals  $r_1, \dots, r_N$ , an asynchronizing section 103 outputs multiple asynchronized signals  $v_1, \dots, v_N$  that are obtained by delaying the multiple synchronized signals  $r_1, \dots, r_N$  by time  $t_1, \dots, t_N$ , a modulating section 104 modulates the multiple output asynchronized signals  $v_1, \dots, v_N$  to output modulated signal  $w_1, \dots, w_L$  ( $1 \leq L \leq N$ ), a transmitting section 105 transmits the output modulated signal  $w_1, \dots, w_L$ , and the delay time  $t_1, \dots, t_N$  is shorter than a reciprocal number of a minimum value of clock rates of the multiple input received synchronized signals  $r_1, \dots, r_N$ , and is desirably proportional to one generated by a chaos random number in particular.

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